

Gardeners often wonder why it is that seeds of the same plants, sown for illustration, always produce the same colors when sown in the earth. Why is it that seeds of white asters do not sometimes make the mistake of producing blue or pink flowers or scarlet phlox produce white flowering plants? How is it that these plants drawn from the earth just the right materials to produce flowers of the right color?

It is not altogether what the plants draw from the earth that makes the flowers and foliage take on certain distinct colors.

At this season of the year, when hyacinths in pots have been stored in dark cellars to form roots, after which the leaves appear and soon the flower buds, as a signal that it is time for the pot to be placed in a warmer temperature and direct sunlight, it will be noticed, if care is taken to closely inspect the plants as soon as they are removed from the dark cellar, that the young foliage lacks color and the flower buds of the white, blue and pink varieties are all of the same color, somewhat green, but nearly white, and the florist from whom the bulbs were purchased is suspected of having made a mistake, furnishing all one color of flowering bulbs instead of the red, white and blue that were ordered.

When the plants are placed in the sunlight the leaves drink in the sunlight, so to speak, and the flower buds begin to assume their proper colors and the window gardener forgets to commend the careful florist that a day or two before had been condemned.

It is sunlight that chiefly causes the difference in the color of the foliage and flowers of plants, but this is not the sole cause. The foliage and flowers of plants absorb sun rays of certain colors and reject others, and this it is that makes the flowers take on their proper colors.

We know that the character of the soil and possibly a difference in climate may cause flowers to change their colors. Some wild flowers of New Jersey are of quite a different shade of color from the same flowers in Illinois, the character of the soil causing the flowers to change their selection of the sun's rays, and thus the color of the flower is changed.

To prove that the character of the soil may change the color of flowers, take any of the pink flowering varieties of hydrangea hortensis, repot the plant, carefully washing away the old soil and replace in soil in which alum has been incorporated; the proper proportion is half a pound of alum, broken into pieces the size of a hickory nut, to each bushel of soil. In this soil the plants, instead of producing pink flowers as formerly, will produce flowers of blue.

New shades of flowers are produced by crossing one color with another, somewhat as an artist mixes paints to obtain desired shades and colors, but with far more trouble and far less accuracy. Sometimes on the same stem flowers of different colors are found, due to hybridization or to a freak of nature, the tendency to break away from the established type. In nature nothing stands still, it is either progression or retrogression.

The range of color for each species seems to be confined within certain limits, though the hybridizer is gradually extending these limits. Yellow, white and purple are the commonest colors in wild flowers in the order named. Yellow is the simplest and most primitive color, and blue the latest and most highly evolved.

Insects can distinguish colors, have their favorites and are attracted by the colors of flowers. It seems doubtful, possibly, but is easily proved. Take a few panes of window glass, drop a little syrup on the center of each pane and under each lay a piece of colored cloth, a different color under each pane, white, red, blue, yellow and black under another. Place the glasses where insects can reach them and it will be noticed that a decided preference will be shown for some. The experiment can be repeated and the result will be the same, so it is not simply a matter of chance.

The color preference of insects probably has had its effect in the hybridizing of wild flowers.

Hybridization is fully explained in every botany, where complete information on this subject will be found.

Edward C. Vick.

DREER'S GIANT PANSY

The beautiful rich colorings and soft velvety petals have long made the Pansy a garden favorite.

Dreer's Giant Pansies are of strong growth, easy to grow, and are unequalled both as to size, coloring and texture. For packet—10 cents, postpaid.

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is used by thousands of gardeners, both amateur and professional, who regard it as authoritative in the solution of all their gardening problems. It lists all the dependable varieties of flowers and vegetables, as well as the most profitable and easiest to grow, and gives complete information on all the latest methods of culture.

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HENRY A. DREER, 714-16 Chestnut St., Philadelphia, Pa.

GARDEN WORK FOR FEBRUARY.

The mild weather of February and March is a good time to finish pruning. Cutting away part of a branch comes future growth to the remaining buds, improving the vigor of the growth. Judgment must be exercised in this operation and no general rule can be laid down, as different plants require different treatment.

CUTTING BACK TREES AND SHRUBS.

Cutting back the ends of the branches of trees and shrubs makes them bushy. Alders, Camperdown elms and some others require annual treatment to keep them compact, when this is desired.

Cut leaved and silver maples, weeping lindens and other tall, rapid growing trees should be headed in several times while young to cause them to grow bushy and the limbs will grow stronger.

Trees in streets and surrounding houses should have high heads to allow a good view, free circulation of air and free head room for people under the limbs. The lower branches of these trees should be thinned out when they are small, but otherwise should rarely be cut back.

SAVING LARGE BRANCHES.

When cutting off large branches, which is sometimes necessary, the cut should be made close to the trunk. Do not begin sawing on top of a large branch, as when about half severed the weight of the branch will cause it to fall, stripping down a large piece from the trunk, greatly damaging the tree.

Make the first cut under the trunk, about ten inches out from the trunk, sawing half way through. Then start the cut from the top of the limb, over the first cut or a little nearer to the tree trunk. After the limb has fallen make a new cut close to the trunk.

After the final cut is made paint the surface, covering it thoroughly with a good lead paint or hot tar. This helps new growth to cover the wound.

PRUNING SHRUBS.

Shrubs are kept in good bushy form by pruning, whereas otherwise they have a tendency to become straggly. There are two classes of shrubs, one producing flowers from the buds that were formed the previous season, another class from flower buds on the new wood of the current season.

Azaleas, andromedas, dwarf almond, daphne, flowering crab, deutzias, dogwoods, caryophylls, cornelian cherry, flowering current, golden bell, honeysuckles, dwarf horse chestnut, hydrangeas, oaks, leatherwood, lilacs, kamelias, snow, mesquites, mock oranges, privets, viburnums, rhododendrons, etc., flower on wood of the previous season, so that pruning before the flowering season results in decreasing the supply of flowers. If the last year's growth is strong and vigorous the branches may be shortened somewhat, leaving sufficient buds for a good showing of flowers. Summer pruning is the method by which these shrubs are controlled. This is done by shortening old wood just after the plants have finished flowering, cutting out any branches that spoil the shape

of the shrub. This encourages a vigorous growth of new wood on which flowers will be produced the following season. Throughout the growing season too rank shoots are pinched back to regulate the shape of the plant.

Where the shrubs are to be kept back in size once every three or four years they are headed in to the desired size, providing the summer pruning has not accomplished this.

Amorpha, altheas or rope of Sharon, burning bush, cornellias, genestas, hypericums, hydrangeas, flowering locusts, spiraeas, etc., produce flowers on wood of the current season's growth, so these may be closely pruned without danger of decreasing the number of flowers. In fact, most of these will flower more freely if pruned severely.

PRUNING HEDGES.

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PREPARE FOR SPRING.

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MAKE CUTTINGS.

Plants seem to know that spring is approaching. Those fortunate enough to have potatoes in the cellar, while the conditions are the same as they have been all winter, will notice that the sprouts are starting in the effort to be ready on time for planting. Plants indoors take a fresh start and begin to put out new growth. Abutilons, fuchsias and geraniums sprouting vigorously may be propagated as soon as the sprouts are large enough to supply cuttings.

BOW ANNUALS.

Annals wanted for early summer display, canons, centaureas, columbas, scandens, petunias, verbenas, etc., may be sown now in shallow boxes and transplanted as soon as the seedlings are large enough to handle.

STARTING DAHLIA PLANTS.

Dahlia tubers can be placed in boxes or pots and covered with sand, keeping it damp. Young shoots will start quickly and these can be propagated by cuttings, finally setting out the parent tuber. Moral: Secure dahlia tubers early and have a good dahlia bed at trifling expense.

FERTILIZE LAWNS.

Lawns can be given a dressing of bone meal at this season with good results that will be observed later.

ANSWERS TO INQUIRIES.

E. D. MacC., Long Island—It is not advisable to start rose plants growing in the house before planting them in the garden. The best plan is to set dormant plants out in the open ground when they are purchased, as soon as the ground is ready in the spring. Plants that have been growing in pots in a greenhouse and on which there is foliage should be planted later than dormant plants. If set out too early the cold will check their growth and likely injure or kill them.

Killarney, Drusehki, Lady Hillingdon, J. L. Mock and Gruss an Teplitz are all hybrid tea roses. The only protection these roses are given in northern New Jersey is drawing up a mound of soil eight to ten inches high about the base of the plants late in the autumn. When the ground begins to freeze the beds are covered with straw manure and cornstalks and the plants winter safely. On Long Island this same treatment will be all that is required. The uncovered tops may be covered with straw or burlap, but the use of leaves is not advised as mice are likely to make their nests there and destroy the plants through the winter. The protection should be removed gradually as soon as danger of hard freezing is over.

Horace, Connecticut—For your beds the following plants can be used with good effect. All are free flowering. The arrangement can be changed to suit your individual taste.

Antirrhinum, new large flowering strain, flowering from July until frost, 2 to 3 feet high. The semi-tall varieties average 15 inches high, the semi-dwarfs 12 inches and the dwarfs 8 inches. The tall varieties can be used alone for beds or planted in the center of the beds with the lower growing sorts toward the outside edges, giving a pyramidal effect.

Amorpha is a brilliant foliage annual, from 3 to 5 feet high, excellent for bedding.

Bedding petunias, such as Snow-

storm and Purple Queen, will average a foot high. Dwarf fringed petunias about 8 inches. The taller varieties form spreading, bushy plants 16 to 18 inches high.

Salvia, Elizabeth Dunbar, white, is new and will make an unusual bed the coming season, the plants are about 30 inches high, with long clusters of white flowers.

Aretotis grandis forms much branched bushes two to three feet high, with large showy flowers, white on the upper surface and pale lilac blue on the back. Comes into bloom in July and continues to flower until frost.

Dimorphanthe aurantiaca is a bushy plant from twelve to fifteen inches high. The daisy-like flowers are two

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It may be that your bulbs were infected or had been subjected to a high temperature in shipping from where they were originally grown.

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Aretotis grandis forms much branched bushes two to three feet high, with large showy flowers, white on the upper surface and pale lilac blue on the back. Comes into bloom in July and continues to flower until frost.

Dimorphanthe aurantiaca is a bushy plant from twelve to fifteen inches high. The daisy-like flowers are two

open ground in the fall and give them a heavy covering of leaves about a foot deep. The leaves are held in place by a covering of poultry netting. In the spring the leaves are gradually removed, the final covering being taken off after danger of freezing has passed, and excellent results have been secured by this method.

It may be that your bulbs were infected or had been subjected to a high temperature in shipping from where they were originally grown.

Under the heading of "Uncommon Vegetables" it is amusing to an American to read in a British horticultural journal that "maize or Indian sugar corn is steadily increasing in favor,

flower more freely if pruned severely.

PRUNING HEDGES.

Evergreen hedges should not be pruned until April, but deciduous hedges may be pruned at this time.

PREPARE FOR SPRING.

This is a good time to get vases, porch boxes and trellises in good order. Labels, stakes and plant boxes should be provided for spring and summer use.

MAKE CUTTINGS.

Plants seem to know that spring is approaching. Those fortunate enough to have potatoes in the cellar, while the conditions are the same as they have been all winter, will notice that the sprouts are starting in the effort to be ready on time for planting. Plants indoors take a fresh start and begin to put out new growth. Abutilons, fuchsias and geraniums sprouting vigorously may be propagated as soon as the sprouts are large enough to supply cuttings.

BOW ANNUALS.

Annals wanted for early summer display, canons, centaureas, columbas, scandens, petunias, verbenas, etc., may be sown now in shallow boxes and transplanted as soon as the seedlings are large enough to handle.

STARTING DAHLIA PLANTS.

Dahlia tubers can be placed in boxes or pots and covered with sand, keeping it damp. Young shoots will start quickly and these can be propagated by cuttings, finally setting out the parent tuber. Moral: Secure dahlia tubers early and have a good dahlia bed at trifling expense.

FERTILIZE LAWNS.

Lawns can be given a dressing of bone meal at this season with good results that will be observed later.

ANSWERS TO INQUIRIES.

E. D. MacC., Long Island—It is not advisable to start rose plants growing in the house before planting them in the garden. The best plan is to set dormant plants out in the open ground when they are purchased, as soon as the ground is ready in the spring. Plants that have been growing in pots in a greenhouse and on which there is foliage should be planted later than dormant plants. If set out too early the cold will check their growth and likely injure or kill them.



To have gardens like these make preparations now.

Hyacinths in pots or boxes that have been kept in a cool dark cellar to form roots should not be brought into the light until the tops have made considerable growth. From the cool position of the cellar move them to a warm place near the heater and keep them in the dark. A temporary roofing of strawboard